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L2	18	(warehouse) and "BI" and "GUI" and "OLAP" and "OLTP"	US-PGPUB; USPAT; JPO; IBM_TDB	OR	OFF	2006/05/03 22:08
L3	13	(warehouse) and "BI" and "GUI" and "OLAP" and "OLTP" and (meta with data)	US-PGPUB; USPAT; JPO; IBM_TDB	OR	OFF	2006/05/03 22:12
L4	13	(warehouse) and "BI" and "GUI" and "OLAP" and "OLTP" and (meta with data) and model and layer	US-PGPUB; USPAT; JPO; IBM_TDB	OR	OFF	2006/05/03 22:12
L7	3	warehouse and dimension and (on-line with analys\$5) and (user with interface) and (business with intelli\$7) and (meta with data)	US-PGPUB; USPAT; JPO; IBM_TDB	OR	OFF	2006/05/03 22:34



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- 1 [Data warehouse design 2: Sense & response service architecture \(SARESA\): an approach towards a real-time business intelligence solution and its use for a fraud detection application](#)

Tho Manh Nguyen, Josef Schiefer, A. Min Tjoa

November 2005 **Proceedings of the 8th ACM international workshop on Data warehousing and OLAP DOLAP '05**

Publisher: ACM Press

Full text available: pdf(1.60 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The dynamic business environment of many organizations require massive monitoring of their processes in real-time in order to proactively respond to exceptional situations and to take advantage of time-sensitive business opportunities. The ability to sense and interpret events about a changing business environment requires an event-driven IT infrastructure for performing fast and well-informed decisions and putting them into action. However, traditional Business Intelligence (BI) and Data Wareh ...

Keywords: data analysis, event sense & response, real-time business intelligence, real-time data warehousing and OLAP

- 2 [M⁴: a metamodel for data preprocessing](#)

Anca Vaduva, Jörg-Uwe Kietz, Regina Zücker

November 2001 **Proceedings of the 4th ACM international workshop on Data warehousing and OLAP**

Publisher: ACM Press

Full text available: pdf(12.97 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Metadata-driven tools store control information in repositories that are outside of programs and applications. At runtime, this control information (i.e., metadata) is read, interpreted and dynamically bound into software execution. If new requirements arise, metadata may be changed without affecting the programs sharing it and without requiring re-compilation of these programs. Repositories store metadata according to a metadata structure, called a *metamodel*. *M⁴* is the ...

- 3 [Research session: query optimization and summarization: General purpose database summarization](#)

Régis Saint-Paul, Guillaume Raschia, Nouredine Mouaddib

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available:  [pdf\(581.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, a message-oriented architecture for large database summarization is presented. The summarization system takes a database table as input and produces a reduced version of this table through both a rewriting and a generalization process. The resulting table provides tuples with less precision than the original but yet are very informative of the actual content of the database. This reduced form can be used as input for advanced data mining processes as well as some specific applicat ...

4 GPGPU: general purpose computation on graphics hardware



David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(63.03 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

5 DIVE-ON: from databases to virtual reality



Ayman Ammoura

March 2001 **Crossroads**, Volume 7 Issue 3

Publisher: ACM Press

Full text available:  [html\(57.88 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

6 Industrial session: query processing and optimization: Query by Excel



Andrew Witkowski, Srikanth Bellamkonda, Tolga Bozkaya, Aman Naimat, Lei Sheng, Sankar Subramanian, Allison Waingold

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available:  [pdf\(243.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Spreadsheets, and MS Excel in particular, are established analysis tools. They offer an attractive user interface, provide an easy to use computational model, and offer substantial interactivity for what-if analysis. However, as opposed to RDBMS, spreadsheets do not provide a central repository hence they do not provide shareability of models built in Excel and lead to proliferation of multiple copies of the same spreadsheet. Furthermore, spreadsheets do not offer scalable computation, for examp ...

7 Discovery of multi-level rules and exceptions from a distributed database



Rónán Páircéir, Sally McClean, Bryan Scotney

August 2000 **Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining**

Publisher: ACM Press

Full text available:  [pdf\(132.32 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: aggregates, distributed databases, exception discovery, multi-level statistical models, rule discovery, sufficient statistics

8 Geographical analysis in SAP business information warehouse



Karim Mohraz

November 2000 **Proceedings of the 8th ACM international symposium on Advances in geographic information systems**

Publisher: ACM Press

Full text available: pdf(519.34 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The visualization of business data in a geographic context supports the decision making process by showing how e.g. sales data relates to other data. Tasks like *market penetration analysis* can be "visually" tackled by combining enterprise and market data on a map. In this paper it is shown how maps can be linked to the data queried from SAP's Business Information Warehouse (BW), in order to benefit from geographic analysis. BW provides a seamless integration of its unique G ...

Keywords: OLAP, data warehouse, geographic interface, visualization

9 Sizing DB2 UDB® servers for business intelligence workloads



Ted J. Wasserman, Patrick Martin, Haider Rizvi

October 2004 **Proceedings of the 2004 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(178.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computer system sizing involves estimating the amount of hardware resources needed to support a new application that has not been run in a production environment. Sizing assumes that little system environment information or performance measurements are available for the specific workload, thus a sizing expert must use extrapolations from similar workloads, industry benchmarks, rules-of-thumb, and hardware performance guidelines to determine the type and quantity of resources required. In this ...

10 Business intelligence: Beyond data warehousing: what's next in business intelligence?



Matteo Golfarelli, Stefano Rizzi, Iuris Cella

November 2004 **Proceedings of the 7th ACM international workshop on Data warehousing and OLAP**

Publisher: ACM Press

Full text available: pdf(589.75 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

During the last ten years the approach to business management has deeply changed, and companies have understood the importance of enforcing achievement of the goals defined by their strategy through metrics-driven management. The DW process, though supporting bottom-up extraction of information from data, fails in top-down enforcing the company strategy. A new approach to BI, called Business Performance Management (BPM), is emerging from this framework: it includes DW but it also requires a r ...

Keywords: architectures, business metrics, business processes

11 Articles on microarray data mining: Graphical modeling based gene interaction





analysis for microarray data

Xintao Wu, Yong Ye, Liying Zhang

December 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 2

Publisher: ACM Press

Full text available: pdf(197.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

DNA Microarray provides a powerful basis for analysis of gene expression. Data mining methods such as clustering have been widely applied to microarray data to link genes that show similar expression patterns. However, this approach usually fails to unveil gene-gene interactions in the same cluster. In this paper, we propose to use graphical modeling based interaction analysis for this purpose. We apply graphical gaussian model to discover pairwise gene interactions and use loglinear model to di ...

Keywords: graphical modeling, loglinear modeling, microarray data analysis

12 Poster papers: The application of data warehousing in e-business environment and case study



Guoling Lao, Ying Tang

August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC '05**

Publisher: ACM Press

Full text available: pdf(349.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Basing on a new understanding of the data warehousing in e-business, we introduce the changing scheme and design of data warehousing in such environment. Finally, we reveal two typical cases domestic and oversea to show how it was used in real world.

Keywords: ETL, OLAP, clickstream data, data warehousing, e-business

13 KM-2 (knowledge management): clustering II: A vertical distance-based outlier detection method with local pruning



Dongmei Ren, Imad Rahal, William Perrizo, Kirk Scott

November 2004 **Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04**

Publisher: ACM Press

Full text available: pdf(265.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

"One person's noise is another person's signal". Outlier detection is used to clean up datasets and also to discover useful anomalies, such as criminal activities in electronic commerce, computer intrusion attacks, terrorist threats, agricultural pest infestations, etc. Thus, outlier detection is critically important in the information-based society. This paper focuses on finding outliers in large datasets using distance-based methods. First, to speedup outlier detections, we revise Knorr and ...

Keywords: distance-based, neighborhood search, outlier detection, p-tree, pruning

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IEE CNF	IEE Conference Proceeding
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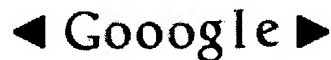
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